

No. KITO-9

Certificate of Analysis



Product Name: Chitosan- Fluorescein conjugate (Base chitosan: 200-800 cP, 1 wt. % in 1% acetic acid (25 °C, Brookfield) Aldrich Cat#448877) (Lot#: 241011RAI-A)

H-NMR

H-NMR Spectrum of copolymers in D2O (Bruker ≥ 300 MHz, PINMRF) NMR of Chitosan-Fluorescein

FTIR

FTIR Analysis: Collected from IS5 ID7-ATR spectrometer (Thermo Scientific) and analyzed in transmission mode.

DYE CONTENT

Dye Content: Testing of absorbance of polymer in 1% HCl solution at 425 nm as compared to series of Fluorescein free-acid standards has indicated a dye content of: 48.54 $\mu\text{g}/\text{mg}$ total polymer.

Structure of Chitosan-fluorescein copolymers

Approved By:
Amie Tyler
Quality Manager